

City of Oceanside

**La Salina Wastewater
Treatment Plant**

**Sewage Sludge Annual Report
2000**

**City of Oceanside
SEWAGE SLUDGE ANNUAL REPORT 2000**

Date: February 15, 2001

Name of Generator: City of Oceanside Water Utilities Department

Location: La Salina Wastewater Treatment Plant
1330 South Tait Street
Oceanside, California 92054

Mailing Address: City of Oceanside
Water Utilities Department
300 North Coast Highway
Oceanside, California 92054-2885

Contact Person: Guss Pennell, Environmental Regulatory Compliance Officer

Telephone: 760-966-8795

Flow MGD (average): 3.7 MGD

Plant Description: The La Salina Wastewater Treatment Plant (WWTP) is an activated sludge treatment facility that has a design capacity of 5.5 MGD. It is a Class I sludge management facility with an approved pretreatment program.

Sludge Treatment Process: Primary clarifier sludge is pumped into the primary anaerobic digester that is mechanically mixed and heated. Waste activated sludge is thickened in a dissolved air floatation unit and pumped into the primary anaerobic as well. Digested sludge is then transferred into a secondary anaerobic digester that is not heated. Each digester has a capacity of 630,000 gallons.

The treated sludge is injected with hydrogen peroxide for odor control prior to dewatering with two 2.2-meter filter belt presses. The dewatered sludge (15.4% Total Solids Annual Average) was loaded into 30 cubic yard end dump trailers and trucked to San Diego County (523.6 Dry Metric Tons) or Riverside County (17.3 Dry Metric Tons) for direct land application to agricultural fields by RPI Bio Gro, a Waste Management Company for the period of January 1, 2000 through August 13, 2000. From August 14, 2000 to December 31, 2000 Synagro Technologies took control of RPI Bio Gro and changed the name to Synagro.

If land application was not possible, Copper Mountain Landfill in Arizona would be the disposal location. No sludge was hauled to Arizona in 2000.

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Location: La Salina Wastewater Treatment Plant – Continued:

The land application is according to the EPA's protocol for Class B biosolids. The sludge was incorporated into the ground within 24 hours according to Riverside County Ordinance #696. All 2000 hauling was done under contract with Waste Management of North County.

Total Sludge Generated in 2000: 540.9 Dry Metric Tons

Sludge Delivered to RPI Bio Gro / Synagro: 540.9 Dry Metric Tons Total

San Diego County:	523.6 Dry Metric Tons
Riverside County:	17.3 Dry Metric Tons

Address of Land Application Facility: Synagro (US Mail address)
P.O. Box 7027
Corona, CA 92878-7027

Synagro (FED EX address)
10490 Dawson Canyon Rd
Corona, CA 91719
800-242-2222 or 909-277-2662

On August 14, 2000 Synagro Technologies entered into a stock purchase agreement with Bio Gro, a Waste Management Company. The two companies merged into a single company under the name of Synagro. For the purpose of reporting, I have combined the two companies for the year 2000 and listed the final resulting address.

Sludge Delivered to Arizona Landfill: 0 Dry Metric Tons

Address of Next Preparer: Copper Mountain Landfill
35 East County 12th Street
Welton, Arizona 85356
520-782-6355

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Location: La Salina Wastewater Treatment Plant – Continued:

Pollutant Concentrations (Metals): January to December 2000, analyzed monthly but reported as bimonthly averages on Notice and Necessary Information (NANI) certifications. These are attached.

The data below is taken from the monthly data sheets. Metals are expressed as Total and Units are mg/kg Dry Weight. All values are within Table 3 Limits.

§503.13 Pollutants	Table 3 Limits	Jan.	Feb.	March	April	May	June
Arsenic	41	5	4	6	5	<5	5
Cadmium	39	3.16	2.56	3.18	2.97	3.38	2.96
Chromium	No Std.	30.1	31.1	27.0	32.9	25.3	22.3
Copper	1500	321	323	374	357	340	348
Lead	300	30	30	34.7	30.7	27.4	27.4
Mercury	17	1.46	2.33	1.35	1.20	1.51	2.00
Molybdenum	* 75	8	9	8.2	8.4	8.10	7.48
Nickel	420	23.6	26.1	21.5	24.6	27.4	25.1
Selenium	100	10.5	8.9	12.2	12.0	7.08	7.36
Zinc	2800	736	756	815	786	710	734
% T.S.	No Std.	15.7	14.7	14.3	16.2	14.4	14.5

§503.13 Pollutants	Table 3 Limits	July	Aug.	Sept.	Oct.	Nov.	Dec.
Arsenic	41	4.47	3.95	7	4	4	<4
Cadmium	39	6.42	5.90	3.6	3.4	3.00	2.92
Chromium	No Std.	23.3	22.4	22	24	23.4	23.2
Copper	1500	374	382	410	400	403	387
Lead	300	32.6	33.3	32	32	31.2	30.8
Mercury	17	2.23	3.10	1.4	1.5	1.71	1.40
Molybdenum	* 75	5.62	6.87	8.8	9.0	9.24	9.80
Nickel	420	23.8	22.1	27	28	27.9	27.1
Selenium	100	7.74	8.51	6.8	8.3	6	6
Zinc	2800	740	784	880	833	800	827
% T.S.	No Std.	17.4	16.4	14.7	15.6	15.0	15.3

* 75 – Molybdenum Limit from Table 1.

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Location: La Salina Wastewater Treatment Plant – Continued:

Pathogen Reduction: Class B requirements for direct land application in 503.32 (b) (2) Alternative 1 were met by the La Salina WWTP for six bimonthly monitoring periods for January through December 2000. See attached Notice and Necessary Information (NANI) Certificates with the supporting laboratory report.

Vector Attraction reduction: The vector attraction reduction requirements in 503.33 (b) (1) or Option 1 were met by the La Salina WWTP for the six bimonthly monitoring periods for January through December 2000. The 38% reduction in volatile solids requirement was achieved during the entire year. See attached NANI Certificates.

RPI Bio Gro and now Synagro incorporates the sludge into the soil within 24 hours as required by Riverside County Ordinance #696. Synagro would be immediately notified if our wastewater treatment plant experienced a problem. If the reduction is going to be less than 38% for several days, Synagro would incorporate the sludge within six hours thereby satisfying option 503.33 (b) (10).

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Location: La Salina Wastewater Treatment Plant – Continued:

Notice and Necessary Information (NANI) Certificates: See following pages

NOTICE AND NECESSARY INFORMATION (NANI)

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements [503.12(f)]. Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land appliers and also by land appliers to transmit information to land owners or lease holders.

Facility and Biosolids Type: La Salina WWTP Dewatered Digested Sludge

Monitoring Period: From 01/01/00 To 02/29/00

To be Completed by PREPARERS of Biosolids

A. Please provide pollutant concentrations

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (monthly average)	Ceiling Concentrations* (Table 1, 40 CFR 503.13) (daily maximum)
Arsenic	5 mg/kg	41 mg/kg	75 mg/kg
Cadmium	2.9 mg/kg	39 mg/kg	85 mg/kg
Chromium	31 mg/kg	No Limit	No Limit
Copper	322 mg/kg	1500 mg/kg	4300 mg/kg
Lead	30 mg/kg	300 mg/kg	840 mg/kg
Mercury	1.9 mg/kg	17 mg/kg	57 mg/kg
Molybdenum	9 mg/kg	N/A**	75 mg/kg
Nickel	25 mg/kg	420 mg/kg	420 mg/kg
Selenium	9.7 mg/kg	100 mg/kg	100 mg/kg
Zinc	746 mg/kg	2800 mg/kg	7500 mg/kg
Nitrogen Concentration	Not Tested	N/A	N/A

* Biosolids may not be land applied if any pollutant exceeds these values.

** EPA has temporarily removed molybdenum limits from Table 3, Table 2 and Table 4.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate the level achieved

☐ Class A ☒ Class B - 40 CFR 503.32 (b) (2) Alternative 1.

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed


☒ Option 1 ☐ Option 2 ☐ Option 3 ☐ Option 4

☐ Option 5 ☐ Option 6 ☐ Option 7 ☐ Option 8

☐ No vector attraction reduction options were performed

D. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or these persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name and Official Title (type or print) Guss Pennell, Environmental Regulatory Compliance Officer	B. Area Code and Telephone Number 760-966-8795 & 760-966-4874 (FAX)
C. Signature 	D. Date Signed June 1, 2000